Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 4: Advanced

PE 0604279N I (U)ASE Self Protection Optimization

Component Development & Prototypes (ACD&P)

	•	,										
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	11.896	0.725	0.169	8.033	-	8.033	7.951	6.200	3.600	7.945	Continuing	Continuing
3308: Technology Development	0.817	0.507	0.080	2.394	-	2.394	2.454	2.584	2.679	7.038	Continuing	Continuing
3309: Assault Survivability Optimization	11.079	0.218	0.089	5.639	-	5.639	5.497	3.616	0.921	0.907	Continuing	Continuing

[#] The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This element includes development of Aircraft Survivability equipment and Electronic Warfare/Countermeasures solutions for the United States Navy, United States Marine Corps and Coalition Aircraft to include studies and evaluations of current and future aircraft threats, Modeling and Simulation for improved countermeasure capabilities, and development and testing to address new and emerging threats.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it includes all efforts necessary to evaluate integrated technologies, representative models or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	0.711	0.169	0.706	-	0.706
Current President's Budget	0.725	0.169	8.033	-	8.033
Total Adjustments	0.014	-	7.327	-	7.327
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	0.073	-			
SBIR/STTR Transfer	-	-			
 Program Adjustments 	-	-	7.730	-	7.730
 Rate/Misc Adjustments 	-	-	-0.403	-	-0.403
 Congressional General Reductions Adjustments 	-0.059	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Navy

PE 0604279N: (U)ASE Self Protection Optimization

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604279N I (U)ASE Self Protection Optimization	
Schedule: Project 3308 Technology Development. R-4 schedule exh Schedule: Project 3309 Assualt Survivability Optimization. R-4 schedule:		

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Exhibit R-2A, RDT&E Project Ju	ibit R-2A, RDT&E Project Justification: PB 2015 Navy													
Appropriation/Budget Activity 1319 / 4						am Elemen 79N <i>I (U)AS</i> on	•	•	, ,	oject (Number/Name) 08 / Technology Development				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost		
3308: Technology Development	0.817	0.507	0.080	2.394	-	2.394	2.454	2.584	2.679	7.038	Continuing	Continuing		
Quantity of RDT&E Articles	0.000	-	-	-	-	_	-	-	-	-				

^{*} The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Project Unit 3308 Technology Development: Funds efforts that focus on the quick reaction prototyping of tactical Electronic Warfare (EW)/Countermeasures solutions for increased survivability providing friendly forces the self protection necessary for successful mission accomplishment. This program directly addresses the operational requirement of Strike platforms for optimization of EW/Countermeasure solutions across the Department of the Navy. Improved countermeasure capabilities and techniques through Modeling and Simulation, validated in subsequent field testing to address new and emerging threats, capitalize upon upgrades to Aircraft Survivability Equipment systems capabilities for Strike platforms and evaluate new Radio Frequency Countermeasure and Infra Red Countermeasure technologies.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Technology Development	0.507	0.080	2.394
Articles:	-	-	-
FY 2013 Accomplishments: Continued studies and vulnerability analysis for EW programs.			
FY 2014 Plans: Continue EW vulnerability studies/analysis, product development and test conducted for Strike aircraft across the Future Years Defense Program (FYDP).			
FY 2015 Plans: Continue EW vulnerability studies/analysis, product development and test conducted for Strike aircraft across the FYDP.			
Accomplishments/Planned Programs Subtotals	0.507	0.080	2.394

C. Other Program Funding Summary (\$ in Millions)

N/A

Navy

Remarks

D. Acquisition Strategy

EW vulnerability studies/analysis, product development and test conducted for Strike aircraft across the FYDP.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604279N I (U)ASE Self Protection Optimization	Project (Number/Name) 3308 / Technology Development
E. Performance Metrics		
EW vulnerability studies/analysis, product development and to	est conducted for Strike aircraft across the FYDP.	

PE 0604279N: *(U)ASE Self Protection Optimization* Navy

Appropriation/Budget Activity 1319 / 4 ASPO FY 2013 1Q 2Q 3Q Milestones Fleet Release Systems Development Systems Development Reviews FY-13 Review	FY 2014 FY 20 04Q1Q 2Q 3Q4Q1Q 2Q		Self Protection 33	roject (Number/Name) 308 / Technology Development FY 2018 FY 2019 2Q 3Q 4Q1Q 2Q 3Q 4Q FR-18
Milestones Fleet Release Systems Development FY-13 Review		3Q4Q1Q 2Q 3Q 4Q	 	2Q 3Q 4Q1Q 2Q 3Q 4Q
Fleet Release Systems Development FY-13 Systems Development Reviews FY-13 Review	24010 20 304010 20	FR-16	21Q 2Q 3Q4Q1Q	FR-18
Systems Development FY-13 Systems Development Reviews				
Systems Development FY-13 Systems Development Reviews Review				
FY-13 Systems Development Reviews Review		 		
Systems Development Reviews Review	1 1 1 1 1 1			
	FY-14 Review FY-15 Revie		Review Re	Y-18 Peview Review
	FY-13 FY-14 nalysis Analysis	FY-15 FY-16 Analysis Analys		FY-18 FY-19 Analysis Analysis
System Development		Sof	ftware Development	
Test and Evaluation				
Integrated Evaluation		Y-15 -Eval FY-16 Int-Eval	FY-17 Int-Eval	FY-18 Int-Eval FY-19 Int-Eval
2015DON - 0604279N - 3308				

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Exhibit R-2A, RDT&E Project Ju	xhibit R-2A, RDT&E Project Justification: PB 2015 Navy											te: March 2014			
Appropriation/Budget Activity 1319 / 4						am Elemen 79N / (U)AS on	•	•		ct (Number/Name) Assault Survivability Optimization					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost			
3309: Assault Survivability Optimization	11.079	0.218	0.089	5.639	-	5.639	5.497	3.616	0.921	0.907	Continuing	Continuing			
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-					

^{*}The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project funds the development, testing, and rapid fielding of advanced countermeasures and enhanced employment techniques needed to support current and future operations for United States Navy and the United States Marine Corps aircraft. Incorporates capability advancements in Aircraft Survivability Equipment (ASE) and expendable countermeasures to develop and deploy countermeasure responses resulting in increased platform survivability. Resources will be applied to the following areas: 1. Studies and evaluations of current countermeasure and ASE capabilities and limitations, 2. Development and demonstration of advanced countermeasure, 3. Testing and evaluation of advanced countermeasures, 4. Development of system software for the testing and deployment of advanced countermeasure techniques, and 5. Development of and upgrades to modeling tools and specialized equipment required to conduct evaluation of advanced countermeasures.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Studies & Analysis	0.218	0.089	5.639
Articles:	-	-	-
FY 2013 Accomplishments: Continued studies and analysis for assault aircraft programs.			
FY 2014 Plans: Continue studies and analysis for assault aircraft programs.			
FY 2015 Plans: Begin development and testing for Advanced Countermeasures.			
Accomplishments/Planned Programs Subtotals	0.218	0.089	5.639

C. Other Program Funding Summary (\$ in Millions)

N/A

Navy

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Na	vy	Date: March 2014
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604279N I (U)ASE Self Protection Optimization	Project (Number/Name) 3309 / Assault Survivability Optimization
D. Acquisition Strategy		
dispense techniques. Invest in enhancements to modeling	g and simulation tools to better evaluate effectiveness. Upgrade t	
PE 0604279N I (U)ASE Self Protection 3309 I Assault Survivability Optimization		
Continuation of studies and analyses enorts related to ass	sault aircraft piationnis across i uture Tears Delense i Togram.	

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Exhibit R-4, RDT&E Schedule	Profil	e· PR	2015	Navv			_	LAGGII I							Date	· Ma	rch 2	014	
Appropriation/Budget Activity 1319 / 4		<u> </u>	2010	itavy			R-1 Program Element (Number/Name) PE 0604279N I (U)ASE Self Protection Optimization							Project (Number/Name) 3309 I Assault Survivability Optimization					ntion
ASPO	FY 2	2013	FY 2	014		FY 2015		FY 2016 Q 1Q 2Q 3Q 4Q			FY 2017			FY 2018 Q 4Q 1Q 2Q 3Q 4Q			FY 2019 1Q 2Q 3Q 4Q		
Prep Spectral Flare						RB Package Perf & est													
Spectral Phase I Prequal & DT Effect TST Qual					Contract Award ▼ Fab & Rec IR Pregual Units	PDR Gov Prequal Eval Conduct	DT	FFLT Test (3 forms)	3										
Spectral Phase II Qual and OT TST										OPEVAL FLT TST	RPT		Approval PROD Approval						
Smart Dispensing					FY15 MDF Development			FY16 MDF evelopment	Mode	ling and Si	mulation fo FY17 MD Developm	F	threat tec	1 1	ues FY18 MDF ∂evelopment ▼			FY19 MDF Development	
2015DON - 0604279N - 3309																			

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